

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12727235

Catalog # : 007120T3E254TC-S

Frame : 254/6TC
Output : 7.5 HP (5.5 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 20.4/10.2 A
L. R. Amperes : 104/52.0 A
LRC : 5.1x(Code F)
No load current : 10.7/5.37 A
Rated speed : 1175 rpm
Slip : 2.08 %
Rated torque : 33.5 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.00 sq.ft.lb
Design : B

Locked rotor time : 66s (cold) 37s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 201 lb

Output	25%	50%	75%	100%
Efficiency (%)	88.2 90.1	88.5 89.3	90.2 89.1	90.2 88.0
	89.1	88.6	89.3	88.5
Power Factor	0.33 0.39	0.56 0.63	0.68 0.74	0.75 0.78
	0.33	0.56	0.69	0.75

Foundation loads
Max. traction : 325 lb
Max. compression : 527 lb

	Drive end	Non drive end
Bearing type	6309 Z C3	6208 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	Mobil Polyrex EM	

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 1		
Checked by				
Date	27/03/2024			
		Revision		